



Addison Fire Department Pre-action Fire Sprinkler Installation

The purpose of this document is to identify minimum requirements necessary to establish acceptable installation practices for pre-action fire sprinkler systems. These standards can be found in NFPA 13 & Addison City ordinance.

- All steel piping shall be internally galvanized steel.
- Extended coverage heads are not permitted in pre-action systems.
- Double interlock systems are not allowed in Addison. Only single interlock and non-interlock.
- The automatic water control valve shall be provided with hydraulic, pneumatic, or mechanical manual means for operation that is independent of detection devices and of the sprinklers.
- System water control valves and supply pipes shall be protected against freezing and mechanical injury.
- Valve rooms shall be lighted and heated. Heat tape shall not be used.
- Not more than 1000 heads on a single pre-action valve are allowed.
- Only dry pendants or return bends shall be installed on pre-action systems.
- Single Interlock systems with more than 20 heads shall be automatically supervised. Minimum air supervising pressure of 7 psi.
- Upon activation of the pre-action valve, an alarm signal must be received at the FACP within 60 seconds.
- All pre-action systems shall be equipped with a trip test (inspector's test) connection not less than 1-inch in diameter with a smooth bore corrosion resistant orifice to provide flow equivalent to one sprinkler of the smallest orifice on the system. The discharge shall be piped to a safe location capable of accepting the full flow from the system being tested for the duration of the test.
- All pre-action systems shall be equipped with an alarm bypass test connection per NFPA 13 5-15.1.3 (1999)

It is the responsibility of the fire sprinkler contractor to recognize, understand and practice the installation standards prescribed in NFPA 13 to ensure the reliability, survivability and serviceability of fire sprinkler system, fire pump and other life safety systems that are specific to a fire sprinkler contractor.

Any Omission by the Fire Department should not be misinterpreted as permission to install a system incorrectly.

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